

PASSAGE PLAN FORM

PASSAGE PLANNING - GENERAL INSTRUCTIONS FOR COMPLETION

a) Vessel's Details

- ◆ Please note that all field marked by pale yellow colour are to be filled in, even those you can see on the right side of the spreadsheet. These will not appear in the print-out, as the print area is defined
- ◆ Fill cells in column 'C' as required. Under cell 9C be sure to enter Loaded or Ballast as this choses which block coefficient is chosen by the program under cell 26C.
- ◆ DO NOT fill cell 26C as this will be completed automatically.
- ◆ In cell I26 enter Loaded mean draft, in cell I27 enter Ballast mean draught.
- ◆ In cell J26 enter the block coefficient that equates to the mean draught when Loaded, in cell J27 enter the block coefficient that equates to the mean draught in
- ◆ The program will then choose one of these block coefficients to enter in cell 26C depending on whether you typed 'Loaded or Ballast in cell 9C.
- ◆ The Air draft calculation take into accout the **horizontal distance** between the aft perpendicular and the point below the highest structure (DHA). Record Length
- ◆ The calculation for recording max overhead clearance when passing under any overhead limiting structure can be done in cells C31 and C32

b) Voyage Info

Some fields are updated utomatically. Following fields are to be completed:

- Nautical Publications/Reporting Schemes
- Charts
- Reference Charts
- Navigational Aids (if different from the example)
- Navtex
- Navarea Wngs and T and P Notices, No. Charts Affected
navarea warnings and T and P corrections must be mentioned here for paper charts. ECDIS vessels need not mention these here. However, ECDIS vessels that have to manually apply T and P corrections require to state details here
- Navtex Local and Coastal warnings
- Speed (in intervals) for the vessel in order to get the duration of sea passage calculated
- An additional space has been inserted to include ECDIS related safety settings. These are NOT to be changed without Masters permisson

c) Master's Comments

Please follow the instructions given in red under the respective column heads in the spreadsheet

d) ECDIS vessels Passage plan checklist

For use by ECDIS vessels. Answers to be in Yes/No and NA. Insert remarks as appropriate

d) Waypoints (BP/PP/PB)

- ◆ Please enter Latitude (N/S) and data as taken out from chart, i.e. for N 35° 14' 48" as N 35 14.8, the input will be calculated in decimals anyhow. In addition you
- ◆ Another thing to remember due to field formats - if you have any latitude or longitude figure being '0', enter 0.00001, as then the figure '0' will appear in the
- ◆ The next item to be filled is the respective geographical name of the waypoint.
- ◆ On the right side of the form under the brightly coloured headers are - Weather Allowance, Minimum Available Charted Depth and Tide Allowance.
- ◆ **IT IS RECOMMENDED TO RE-CHECK THE WEATHER ALLOWANCE AND HEIGHT OF TIDE WHEN BERTHING. ANY CHANGE IN BERTHING WILL REQUIRE THE**
- ◆ The 'Weather Allowance' (in meters), should include "Sea State Effect" (swell and waves) and "Seasonal Height Variations" (due to barometric pressure etc.)
- ◆ If you expect swell or waves, especially important during approaches to pilot station or anchorages , do not forget - swell/waves will reduce your UKC
- ◆ Enter minimum available charted depth in between the waypoints. Take the minimum depth in between waypoints off your chart, as the higher values are not

e) Form (BP/PP/PB)

The following items are to be entered:

- ◆ - Parallel Index
- ◆ - Permitted XTE (THE XTE WILL NEED TO BE SMALL IN NARROW CHANNELS, EVEN ZERO IN PLACES AND ON THE OPEN SEA 0.5 OR EVEN 1 MILE MIGHT BE
- ◆ - Fix Method (i.e. GPS, Radar, Celestial)
- ◆ - Fix Intervals (Enter your appropriate intervals - **REMEMBER THAT THE FIX INTERVAL SHOULD BE SUCH THAT THE VESSEL CANNOT STAND INTO DANGER**
- ◆ - ECDIS vessels can mention "Continuous" in the FIX Interval column. However they also do need to manually verify positions when approaching or leaving port,
- ◆ - ARLS, Sailing Directions, Charts (as applicable)
- ◆ - In the columns "Required Engine Status" enter "Manuvering speed/Sea speed with notice or Full sea speed" as applicable
- ◆ - The columns CATZOC Zone and UKC ACCURACY are for use on ECDIS vessels only. UKC ACCURACY depicts the Depth accuracy 'that will depend in the ZOC of the
- ◆ - The column S gives the accuracy of the depth for that ENC. Officers should apply the DEPTH ACCURACY to the UKC. This may be subtracted or added to the
- ◆ For paper chart vessel: In Col N, the calculated UKC of the vessel will be checked with the applicable minimum UKC allowed, and if the result is "YES", then it

f) Squat UKC (BP/PP/PB)

- ◆ Calculations are automated. The DWA/FWA will need to be entered in spreadsheet 'Squat UKC BP/PP/PB' depending on the density of water for the red marked
- ◆ In addition the vessel's speed needs to be entered in intervals in the Squat table (yellow highlighted), the relevant squat is then calculated automatically.
- ◆ Select the "HEEL CORRECTION" in F30. The heel must be entered in the cell provided and this will be added to the draft for calculating the UKC
- ◆ The Columns CATZOC and Depth Accuracy are applicable to ECDIS vessels only
- ◆ Select the required UKC (10%, 15% or 50%) from the drop menu as per the UKC policy (Col O)
- ◆ Select the required SQUAT CORRECTION TYPE (Open or Confined) from the drop menu. Refer to Marine manual appendix for guidance.

This form provides two method for calculating UKC:

METHOD 1: Providing UKC accuracy values as given by IHO for use by the master as deemed appropriate

In this method the master needs to manually apply the UKC ACCURACY (col R in Squat UKC sheets) to the UKC as he deems appropriate in order to get the final

How to calculate: Ref. Squat UKC sheets

- ◆ Depending on the ZOC of the ENC, select the appropriate category for the ZOC from the drop down menu in col Q
- ◆ The adjoining column R gives the UKC ACCURACY for that ZOC . This is dependent on the depth of water.
- ◆ Officers should apply the UKC ACCURACY to the UKC in col M. This may be subtracted or added to the water depth, Subtracting the Depth accuracy from the
- ◆ The value of UKC accuracy for zone A2 and B is same

Caution: ECDIS vessels must take into account the effect of "UKC accuracy" in col R of the Squat UKC sheet when calculating the vessels

METHOD 2: Calculating UKC by automatically subtracting CATZOC accuracy figures

In this method the UKC ACCURACY figure (col R in Squat UKC sheets) is subtracted from Col M (Squat UKC sheet) automatically. This method however does

How to calculate: Ref. Squat UKC sheets

- ◆ Depending on the ZOC of the ENC, select the appropriate category for the ZOC from the drop down menu in col Q
- ◆ Column S gives the final UKC for that ZOC (by subtracting Col R from Col M). This column does not give any results for CATZOC Zones D and U.
- ◆ Col T gives options "Yes" or "NO GO" depending if the UKC is sufficient or not. This column will not provide any values and shows "cannot be assessed" in
- ◆ In case of Col T gives "Cannot be assessed", the vessels must:

GENERAL INSTRUCTIONS:

- ◆ Keep the blank passage planning form as a blank. Do this by opening it then saving it under a new name for the voyage you are planning. That way
- ◆ If more waypoints are needed than are provided it is necessary to stop the voyage at a suitable point (I.e. the locks at Antwerp) and start a new
- ◆ If the vessel anchors before embarking the Pilot remember to make a new form for the deviation to anchorage and back to the Pilot Station.

Great Circle Calculations:

The Passage Planning as given here does not provide a Great Circle calculation for your voyages.

Rhumb Line Distance:

The distances obtained from this Plan should be confirmed with those obtained upon plotting courses on the chart

Date 21/Jun/18

Vessel Name CLIPPER BLISS

Call Sign : 3FYY4

Voyage No V1804 LEG2

Ballast / Loaded : LOADED

From	PUNTA LOBITOS PERU
Berth	NO.1
UTC:	-500
Tide Datum:	1.5
To	QING DAO CHINA
Berth	
UTC:	-500.0
Tide Datum:	1.50
Via	
UTC :	

Draft F 09.75 m Length Between perpendiculars (LBP) 173

Draft Mid 09.95 m Horizontal Distance between highest point and Aft perpendicular (DHA) 13.57

Draft A 10.15 m

Trim 00.40 m

Cb 0.8282

Keel to Max. Height 44.46 m

Air Draft 34.34 m

Service / Sea Speed (as applied in Voyage Planning) 12.50

Height of any limiting overhead structure (under which the Minimum air clearance available) 02.00 m

-32.34 m (Minimum permissible air clearance is 2.0m)

	Draft	Cb
LOADED Mean Draft	9.95	0.8282
BALLAST Mean Draft		

	Speed Variables Manoeuvring	Loaded	Ballast
1	Full Ahead	14.0	
2	Half Ahead	12.0	
3	Slow Ahead	6.2	
4	Dead Slow Ahead	4.1	

Date : 21/Jun/18

Vessel Name : CLIPPER BLISS

Voyage No : V1804

Draft	
Fwd :	09.75 m
Mid :	09.95 m
Aft :	10.15 m
Trim :	00.40 m
Air :	34.34 m

Port	
From :	PUNTA LOBITOS
To :	QING DAO
Via :	

Total Distance [nm]	9254.29
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Time	
UTC :	-500
UTC :	-500
UTC :	
Time Difference	
+ / -	0.0

emark: + = advance / - = retail

Nautical Publications / Reporting Schemes			
Coast Pilot Books	SAILING DIRECTION		
Admiralty List of Radio Signals	NP281(2)NP282(2)NP283(2)NP284NP285 NP286(7)NP286(6)		
Admiralty List of Lights	NP80 NP87		
Admiralty Tide Tables	NP204 NP206		
Tidal Stream Atlas			
Mariner's Handbook	NP100		
Routeing Charts	5128(60 5218(7) 5127(6) 5127(7)		
Sailing Directions	NP7 NP8 NP62 NP41 NP43 NP32		
Reporting *	Peru /Ecuador ship reporting system		
Voyage charts corrected up to	NTM WK:	WK25/18	Date : 20/JUN

*** Procedures on chart and bridge note book**

[illegible]

NAVIGATIONAL AIDS		
A	RADAR	YES
B	ARPA	YES
C	AIS	YES
D	GLOBAL POSITIONING SYSTEM (GPS)	YES
E	NAVTEX	YES
F	VISUAL BEARINGS	YES
G	FACSIMILE (WEATHER FORECAST), LOCAL WARNING	YES
H	ECHO SOUNDER	YES
I	ADMIRALTY PUBLICATIONS - PILOTS, TIDE TABLES, LIST OF LIGHTS, ALRS,	YES
J	TOTAL TIDE USED FOR UKC CALCULATIONS? (YES or MANUAL)	YES
K	BNWAS	YES
L	SAT-C	YES

STEAMING TIME (SEA PASSAGE)		
Knots	Days	Hours
13.5	28	14
13.0	29	16
12.5	30	20
12.0	01	747
11.5	02	757
11.0	04	745

NAVTEX STATIONS
AUTO SELECTED

[illegible]

Nautex local and coastal warnings	
SHOULD BE READ EVERY WATCH.	
	PLS DRAWING ON CHART IF AFFECTED.

Anchorage, Contingency anchorage and other Miscellaneous information
PLS SEE CHART

ECDIS settings	Setting value	REMARK
For the voyage following are ECDIS settings: These are NOT to be changed without Masters permisson.		
SAFETY CONTOUR	14	Ship's draught,UKC,Squat,CATZOC,• Tide allowance,DWA,FWA,Wave height, Heel correction,• Rolling allowance
SAFETY DEPTH	11	It is same what was calculated in safety contour setting
DEEP CONTOUR	30	This is a relative term and Master is free to set what he believes could be deep water for him
SHALLOW CONTOUR	11	The shallow contour value need to be equal to or more than the draft of the vessel
SAFETY FRAME:		
AHEAD	900M	Depending on the ship's speed, traffic situation, geographical limitations and manoeuvrability
PORT AND STBD CORRIDOR	30M	is depending on expected traffic situation, ship particulars and geographical limitations (channels, fairways, etc)

Prepared by:	Acknowledged by:	Acknowledged by:	Approved by:
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Nav. Off : LI BINGRU	3rd Officer : ZHANG CHUANBO	Ch. Offr. : LIU YINGJIE	Master : ZHANG MINGFU
Date: 21/JUN	Date: 21/JUN	Date: 21/JUN	Date: 21/JUN
Acknowledged by: _____	Acknowledged by: _____	Acknowledged by: _____	Acknowledged by: _____
Signature: _____	Signature: _____	Signature: _____	Signature: _____
Name/ _____	Name/ Rank _____	Name/ Rank _____	Name/ Rank _____
Rank _____			
Date: _____	Date: _____	Date: _____	Date: _____

MASTER'S COMMENTS

Date : 21/Jun/18
Vessel Name : CLIPPER BLISS
Voyage No : V1804 From: PUNTA LOBITOS To: QING DAO

Navigation
General order as per NAV. Bridge Order
Wide berth to fishing vessel and oil well
Position fixed in var. methods
Notice E/R to SBE before arrive P/S and report relevant port control via VHF

Environmental
Close sewage out let in 12nm of coast area
Garbage collection should be based on consideration of what is permitted and what is not permitted to be discharged into the sea en route, and whether a garbage type can be discharged to port facilities for re-cycling or reuse. Receptacles on board can be in form of drums, metal bins, cans, container bags or wheelie bins.
Crew members must segregate and place the garbage in the relevant receptacles as Company Garbage management plan.
The designated Garbage Management Personnel is responsible for carrying out or arranging the processing of the Garbage.
Security
Gangway watch should be maintained all the time
Check visitor's ID card and make record
MARSEC LEVEL 1

Master : ZHANG MINGFU

Signature : _____

Vessel: CLIPPER BLISS

Voyage No.: V1804

Date Voyage Commences: 43272

Passage from: PUNTA LOBITOS

To: QING DAO

Sr. No	Item	Y/N/NA	Remarks
Setup Before Departure			
1	Does documentation indicate that the ship's navigation system complies with IMO Performance Standards for ECDIS?	YES	
2	Are written procedures available onboard the vessel for using ECDIS?	YES	
3	Are the Master and officers proficient in the use of ECDIS?	YES	
4	Have the Master and officers been provided with:	YES	
	•Generic ECDIS training?		
	•Type-specific training?		
	•ECDIS on board training. Has ECDIS Manual, appendix 5 been completed?		
5	Is the ship equipped with an approved back-up arrangements to ensure safe navigation for the entire voyage, in the event of an ECDIS failure?	NA	Paper chart
6	Is the ship is equipped with the latest updates and new editions of ENC's for entire voyage?	YES	
	Has the ENC Correction Log been completed?	YES	
7	is the "Approve Until" and "Display unit" - current date to be used in order to display the updated situation correctly?	YES	
8	The ship is equipped with correct usage bands for the entire upcoming voyage. The whole route is available, at the appropriate scales.	YES	
9	Back-up-get me home charts' are the latest editions and updated. Chart correction log is completed.	YES	
10	Chart datum (WGS 84) set correctly.	YES	Initial setting
11	Check the time and date set correctly.	YES	
12	Equipment malfunction alarm set.	YES	
13	Radar overlay tested and picture adjusted.	YES	Radar overlay dialog box.
14	The previous voyage log, details log, and danger target log backed up to floppy disk and emptied. All Logs reset for next voyage.	NA	
15	Reset distance and trip counter.	YES	
16	Power supply (both emergency and changing supplies: as per Ch. II-1, SOLAS)	YES	
16a	Repetitive checks to be carried out to ensure all T and P notices and Navigational warning are updated on ENC's having Admiralty Information Overlay (AIO) and Navtex Overlay	YES	
Initial Settings			
17	ECDIS Navigation parameters including Ship and Route parameters set properly.	YES	Navigation parameters
18	Chart Alarm parameters set in accordance with voyage plan and Master's standing orders.	YES	Chart alarm parameters
19	Alerts to be chosen as per Voyage plan.	YES	Chart alarm parameters
Verifying Configuration of Navigation Sensors			
20	Check that: a. There is agreement between sensor data and its presentation on the ECDIS system. b. The ship is in the correct position on the ECDIS and c. The ship's vector is aligned.	YES	
21	"Primary" navigation position sensor set. DGPS as Primary, Kalman (or other) filter off, Dead-reckoning ticked off, Chart align ticked off.	YES	Sensors dialog box
22	Speed/Course sensors set properly. Choose both Log and Dual log. Choose both Gyros no.1 and no.2 (where available).	YES	Sensors dialog box
23	Other sensors - Depth below transducer, AIS Danger and Lost targets set properly as per Voyage Plan.	YES	Sensors dialog box
25	Set UKC as per Company policy for shallow or confined waters.	YES	Sensors dialog box
26	O.O.W. are aware that when depth alarm sounds at depth value ____ mtrs, he needs to change setting to next value as per Voyage plan and the Echo sounder must be "ON".	YES	Sensors dialog box
27	Check Loss of primary positioning information alarm set.	YES	
28	Check Dead-reckoning is available in the event of GPS failure.	YES	
Controlling Visible Chart and Navigation Features (Chart Display and Symbol Display)			
29	Chart display Page Chart: Shallow contour, Safety contour, Depth contour Safety depth to be set in accordance with Voyage Plan.	YES	Chart Display dialog box

30	These are guidance setting, however the vessel may choose settings as per convenience	YES	Chart Display
	Chart display Page Chart to be set as follows:		
	Chart Alert Highlight: ON.		
	Symbols: Paper Chart		
	Depth: MULTICOLOUR		
	Boundaries: Symbolized		
	Light sector: Full		
	Shallow pattern: Diamond		
	Update Highlight: All effects		
31	Chart Display Standard: all features to be chosen.	NA	
32	Chart Display Other 1: all features except "Additional info" to be chosen.	NA	
33	Chart Display Other 2: all features to be chosen.	NA	
34	Symbol Display "Route": all features to be chosen.	NA	Symbol Display dialog box
35	Symbol Display "Tracking": all features to be chosen.	NA	Symbol Display dialog box
36	Symbol Display "Targets": all features to be chosen.	NA	Symbol Display dialog box
37	Symbol Display: all features except "Only radar part of Symbols" to be chosen.	NA	Symbol Display dialog box
38	Symbol Display "General". The following features to be chosen: Beam width, AIS outlines - ON,	NA	Symbol Display dialog box
39	Save Symbol display and Chart display setting.	YES	
40	Has the IHO preslib 4.0 tests been conducted in the last 3 months? Send results to chart provider? Enter date of test done in remarks. See note below about sending results to IHO. <i>There is no need to repeat the check *except after a software update, system upgrade or change of equipment. The results should be reported to the IHO *if and only if anomalies are found*.</i>	YES	
Passage Plan – Information required on ENC and Passage Plan			
41	A route plan from berth to berth completed including all main parameters such as Lat/Long of waypoints, courses and distances, channel limits, WO positions, turning radius, max and min speed limits for the leg (all these requirements have been covered by ECDIS "Plan" function).	YES	
42	Alternate route(s) available (if navigation situation required)	NA	
43	Distances To Go and ETA's	YES	
44	NO GO Areas Marked	YES	
45	Waypoints - Range and Bearing	YES	
46	Leading lines marked and annotated.	YES	
47	Tidal Streams and Currents which can affect navigation annotated.	YES	
48	Radar Conspicuous Targets	YES	
49	Parallel Indexing	YES	
50	Margins Of Safety shown as Clearing bearings and ranges of navigational marks.	YES	
51	Margins Of Safety shown as limiting parallel index.	YES	
52	Limiting Danger Line (LDL) set (additionally to safety depth). <i>This is defined as a line drawn that will indicate limits of safe water. LDL=Draft+Required UKC-Minimum ht of tide</i>	NA	
53	GPS positions/Bearings and range for wheel over position	NA	
54	Position Fixing - Frequency + Primary and Secondary Methods To Be Used	YES	
55	Manual position fixing to prove the GPS position is correct especially when approaching shore (at first sighting of a navigational mark or land on radar screen).	YES	
56	Echo Sounder "ON" marked.	NA	
57	Traffic Expected (Ferries etc.)	YES	
58	Speed Changes - Commenced / Ended / Sea Passage	YES	
59	Call Master / Crew - Enhanced Bridge Manning	NA	
60	Stand-by for tugs / Anchors cleared - Stand-by at anchors	NA	
61	MARPOL, Annex V areas marked (for garbage disposal).	NA	
62	Departure time set.	YES	
63	Reporting Points and Details (VTS, Port Control, Oil terminals, etc).	YES	
64	Pilot Details Channel	YES	
65	Contingency Plans / Anchorages	YES	
66	Abort points/lines	YES	
67	Engine tested/ Steering gear tested	YES	
68	Reference to publications: ALRS, ALL, NTM, etc.	YES	
69	Local Regulations in brief or reference to local regulations if required.	YES	
70	A Route monitor is "ON" to for permanent monitoring of ship's behavior relative to the monitor route.	YES	
71	User charts for upcoming voyage completed	YES	
72	User charts in the monitoring mode.	YES	
73	Planned Notes for upcoming voyage completed.	YES	
73	Planned notes in the monitoring mode.	YES	
74	The size of the “safety frame” should be set for each stage of the passage.	YES	
75	Details log has been set.	YES	
76	Voyage log has been set.	YES	
78	Danger Targets log has been set.	YES	
79	Chart usage log has been set.	YES	
80	Alarms log has been set.	YES	
81	Set chart alert areas suitable for upcoming voyage (as per Voyage Plan).	YES	
82	Alarms and warnings generated from the ENC should be reviewed for each leg of the passage. Voyage route has been checked against chart alerts.	YES	

83	Confirm checked conditions of the route plan	YES	
84	The route has been transferred to the backup ECDIS before departure.	YES	
85	Estimated times of arrival at critical points in the Voyage plan.	YES	
86	Plan route, User Charts and Notes have been backed up/copied to floppy disk.	YES	
Dangerous Tracked Targets Setting			
88	Source of Tracked Targets to be set (No.2 radar/ARPA).	YES	
89	Targets set as follows: TT DISP ON < AIS DISP ALL (AIS set for priority).	YES	Information area
90	CPA and TCPA limits set properly.	YES	Information area
91	Danger alarm for dangerous AIS and TT tracked targets enabled.	YES	Target alarm dialog box
92	Lost tracked target alarm enabled. AIS and TT: max range ____ nm, min speed ____ knots,	YES	Target alarm dialog box
93	Past position of tracked targets	YES	Information area

Name of Officer:
Signature:

LIU YINGJIE

Rank: C/O
Date: 21/JUN/18

Name of Officer:
Signature:

LI BINGRU

Rank: 2/O
Date: 21/JUN/18

Name of Officer:
Signature:

ZHANG CHUANBO

Rank: 3/O
Date: 21/JUN/18

Name of Officer:
Signature:

Rank:
Date:

Name of Officer:
Signature:

Rank:
Date:

Name of Officer:
Signature:

Rank:
Date:

Name of Master:
Signature:

ZHANG MINGFU

Date:21/JUN/18

UKC
PP!Q42=""
UKC
PP!Q43=""
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PP!Q44=""
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PP!Q47=""

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Q107="","','Sq

Q108="","','Sq

Q109="","','Sq

Q110="","','Sq

Q111="","','Sq

Q112="","','Sq

Q113="","','Sq

Q114="","','Sq

Q115="","','Sq

Q116="","','Sq

Q117="","','Sq

Q118="","','Sq

Q119="","','Sq

Q120="","','Sq

Q121="","','Sq

Q122="","','Sq

Q123="","','Sq

Q124="","','Sq

Q125="","','Sq

Q126="","','Sq

Q127="","','Sq

Q128="","','Sq

Q129="","','Sq

2130=""', ''', 'Sq

2131=""', ''', 'Sq

2132=""', ''', 'Sq



Voyage Plan: Part I - Berth to Pilot

Departure Port: PUNTA LOBITOS

[illegible]

FORM NO : MAROPS

Voyage : V1804

Distance	Rem.Distance	Dist. Run	Name WP
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Weather Allow
(See notes on
Instruction page)
[m]

Min Available Voyage :	
Charted	As per
Depth [m]	

Tide
allow.
(+/-)

[illegible]



PASSAGE PLANNING FORM

Berth to Pilot

FORM NO : MAROPS 005

MV **CLIPPER BLISS**
DATE: **21-Jun-18**

FROM: **NO.1**

TO: **Pilot Station**
TIDE DATUM: **1.5**

Voyage **V1804**[illegible]

Cell: P7
Comment: Sundeep Sharma (IN-SDC):
ECDIS vessels may write continuous

SQUAT CALCULATION CLIPPER BLISS
UKC BERTH TO PILOT

Formula for squat calculations
Briefly:

Squat in confined Waters:-
Squat in metres = $2 \times C_b \times (V^2 / 100)$
Squat in open Waters:-
Squat in metres = $C_b \times (V^2 / 100)$
V = Vessel's speed in knots
 C_b = Block coefficient

An approximate calculation "rule of thumb"
estimating on the high and safe side:

Squat (mtrs) = $V_K^2 / 100$ for open Seas
and Squat (mtrs) = $2 \times (V_K^2 / 100)$ in confined waters

where V_K is vessel's speed in knots (speed through water, not GPS Speed)

Sea Water Calculation

1
for intermediate
water densities and
FW
Dock Water /Fresh Water Calculation 2
Dock Water/Fresh Water Allowance 0

Please enter 1 (SW) or 2 (DW/FW) 1

Heel Correction (in m) 0

Speed	SQ-O	SQ-C
2	0.03	0.07
2.5	0.05	0.10
3	0.07	0.15
3.5	0.10	0.20
4	0.13	0.27
4.5	0.17	0.34
5	0.21	0.41
5.5	0.25	0.50
6	0.30	0.60
6.5	0.35	0.70
7	0.41	0.81
7.5	0.47	0.93
8	0.53	1.06
8.5	0.60	1.20
9	0.67	1.34
9.5	0.75	1.49
10	0.83	1.66
10.5	0.91	1.83
11	1.00	2.00
11.5	1.10	2.19

CAUTION

ECDIS vessels must take into account the effect of "UKC accuracy" in col
R when calculating the vessels UKC particularly when the UKC is very
low. Local data/pilots and other sources of data must be consulted
when the UKC policy is not complied with, after applying the UKC
Accuracy correction

[illegible]

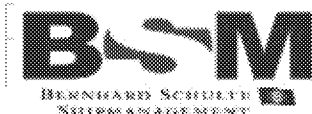
Speed	SQ-O	Speed	SQ-C
2		2	
2.5		2.5	
3		3	
3.5		3.5	
4		4	
4.5		4.5	
5		5	
5.5		5.5	
6		6	
6.5		6.5	
7		7	
7.5		7.5	
8		8	
8.5		8.5	
9		9	
9.5		9.5	
10		10	
10.5		10.5	
11		11	
11.5		11.5	

Cell: N46
Comment: Sundeep Sharma (IN-SDC):
This column gives compliance with UKC policy without subtracting UKC accuracy from depth

Cell: Q46
Comment: Sundeep Sharma (IN-SDC):
Select the CATZOC zone

Cell: R46
Comment: Sundeep Sharma (IN-SDC):
This gives the value of CATZOC ZONE accuracy and can be applied manually to the UKC

Cell: S46
Comment: Sundeep Sharma (IN-SDC):
This column calculates UKC taking into account UKC accuracy



FORM NO : MAROPS 005

Voyage Plan: Part II - Pilot to Pilot

Voyage : V1804

Departure Port: PUNTA LOBITOS

Arrival Port: QING DAO

Weather Allow

(See notes on
Instruction page)

W **When Available**

) Chartered Allow.

[illegible]



PASSAGE PLANNING FORM
PILOT TO PILOT

FORM NO : MAROPS 005

MV CLIPPER BLISS
DATE: 21-Jun-18

FROM: Pilot Station

TO: Pilot Station

Voyage V1804

														REFER CAUTION ON SQUAT UKC PP SHEET	FOR ECDIS VESSELS ONLY								FOR ECDIS VESSELS ONLY
WPT No.	Position S W	Ref. L/L		Position Ref. Geog	Course	Tide/ Current	Distance on track	Estimated Speed	Time to next WP [hrs]	Parallel Index Point/Distance	Permitted X.T.E.	Fix Method	Fix Interval	U.K.C. [m]	CATZOC	UKC ACCURACY	Distance to Dest.	List of Lights	Sailing Dir'ns	Chart	Required Engine status	CATZOC UKC	
																		ALRS					
2		10 ° 5.9 78 ° 11.5		Punta Lobitos P/S	318	1.0	971.5	14.0	69.4	See chart	0.5nm	GPS/Rad ar/Visual	30mins	53.13	B	2.28	9254.3	NP80	NP7	BA3091	Full Speed	50.85	
3		2 ° 0.0 89 ° 0.0		3	313	1.0	1773.9	14.0	126.7	See chart	0.5nm	GPS	1 hour	2124.13	B	43.70	8282.8	NP80	NP7	BA4811	Full Speed	2080.43	
4		22 ° 20.0 111 ° 5.0		4	310	1.0	763.8	14.0	54.6	See chart	0.5nm	GPS	1 hour	3190.13	B	65.02	6508.9	NP80	NP8	BA4802	Full Speed	3125.11	
5		30 ° 30.0 122 ° 0.0		5	291	1.0	2868.8	14.0	204.9	See chart	0.5nm	GPS	1hour	530.13	B	11.82	5745.1	NP80	NP62	BA4802	Full Speed	518.31	
6		47 ° 30.0 180 ° 0.0		6	261	1.0	1355.5	14.0	96.8	See chart	0.5nm	GPS	1hour	614.13	C	33.25	2876.3	NP80	NP62	BA4806	Full Speed	580.88	
7		44 ° 0.0 148 ° 0.0		7	236	1.0	250.3	14.0	17.9	See chart	0.5nm	GPS	1hour	3204.13	C	162.75	1520.8	NP85	NP41	BA4805	Full Speed	3041.38	
8		41 ° 39.0 143 ° 18.0		8	270	1.0	109.1	14.0	7.8	See chart	0.5nm	GPS	30mins	2536.13	C	129.35	1270.5	NP80	NP41	BA1800	Full Speed	2406.78	
9		41 ° 39.0 140 ° 52.0		9	235	1.0	54.7	14.0	3.9	See chart	0.5nm	GPS/Rad ar/Visual	15mins	4510.13	B	91.42	1161.4	NP85	NP41	JP10	Full Speed	4418.71	
10		41 ° 8.0 139 ° 52.0		10	233	1.0	661.1	14.0	47.2	See chart	0.5nm	GPS	1 hour	3199.13	A2	65.20	1106.8	NP85	NP43	BA2293	Full Speed	3133.93	
11		34 ° 27.0 128 ° 46.0		11	239	1.0	65.7	14.0	4.7	See chart	0.5nm	GPS/Rad ar/Visual	15mins	2535.13	B	51.92	445.6	NP85	NP43	BA127	Full Speed	2483.21	
12		33 ° 53.0 127 ° 38.0		12	263	1.0	65.2	14.0	4.7	See chart	0.5nm	GPS/Rad ar/Visual	1 hour	3309.13	A2	67.40	379.9	NP85	NP32B	BA127	Full Speed	3241.73	
13		33 ° 45.5 126 ° 20.0		13	295	1.0	304.9	14.0	21.8	See chart	0.5nm	GPS	1 hour	440.13	A2	10.02	314.7	NP85	NP32B	BA3365	Full Speed	430.11	
14		35 ° 55.6 120 ° 44.0		14	292	1.0	9.8	14.0	0.7	See chart	0.5nm	GPS/Rad ar/Visual	30mins	314.13	A2	7.50	9.8	NP87	NP32B	BA1502	Full Speed	306.63	
15		35 ° 59.3 120 ° 32.8		QingDao P/S		1.0		14.0		See chart	0.5nm	GPS/Rad ar/Visual	15mins	21.13	A2	1.64	0.0	NP87	NP32B	BA1502	Maneuver Speed	19.49	

Prepared by:

<div>LI BINGRU (2/O)</div>	<div><div></div>ZHANG MINGFU Master:</div>	<div><div></div>LIU YINGJIE C/O:</div>	<div>ZHANG CHUANBO 3/O:</div>
<div>4th Officer</div>	<div>Dk Cadet</div>		

Cell: P7
Comment: Sundeep Sharma (IN-SDC):
ECDIS vessels may write continuous

SQUAT CALCULATION FORM (CLIPPER BLISS)

UKC PILOT TO PILOT

Formula for squat calculations
Briefly:

Squat in confined Waters:-
Squat in metres = $2 \times C_b \times (V^2 / 100)$
Squat in open Waters:-
Squat in metres = $C_b \times (V^2 / 100)$
V = Vessel's speed in knots
 C_b = Block coefficient

An approximate calculation "rule of thumb"
estimating on the high and safe side:

Squat (mtrs) = $V_K^2 / 100$ for open Seas
and Squat (mtrs) = $2 \times (V_K^2 / 100)$ in confined waters

where V_K is vessel's speed in knots (speed through water, not GPS Speed)

Sea Water Calculation

1

Dock Water /Fresh Water Calculation

2

For Intermediate water densities and FW

Dock Water/Fresh Water Allowance

1

Please enter 1 (SW) or 2 (DW/FW)

1

Heel Correction (in m)

0

Speed	SQ-O	SQ-C
4	0.13	0.27
5	0.21	0.41
6	0.30	0.60
7	0.41	0.81
8	0.53	1.06
8.5	0.60	1.20
9	0.67	1.34
9.5	0.75	1.49
10	0.83	1.66
10.5	0.91	1.83
11	1.00	2.00
11.5	1.10	2.19
12	1.19	2.39
12.5	1.29	2.59
13	1.40	2.80
13.5	1.51	3.02
14	1.62	3.25
14.5	1.74	3.48
15	1.86	3.73
15.5	1.99	3.98

CAUTION
ECDIS vessels must take into account the effect of "UKC accuracy" when calculating the vessels UKC particularly when the UKC is very low. In other sources of data must be consulted when the UKC policy is applied after applying the UKC Accuracy correction

[illegible]

icy" in col R when
w. Local data/pilots and
is not complied with,

Speed	SQ-C
4	
5	
6	
7	
8	
8.5	
9	
9.5	
10	
10.5	
11	
11.5	
12	
12.5	
13	
13.5	
14	
14.5	
15	
15.5	

Speed	SQ-C
4	
5	
6	
7	
8	
8.5	
9	
9.5	
10	
10.5	
11	
11.5	
12	
12.5	
13	
13.5	
14	
14.5	
15	
15.5	

[illegible]

Cell: N41

Comment: Sundeep Sharma (IN-SDC):
This column gives compliance with UKC policy without subtracting UKC accuracy from depth

Cell: Q41

Comment: Sundeep Sharma (IN-SDC):
Select the CATZOC zone

Cell: R41

Comment: Sundeep Sharma (IN-SDC):
This gives the value of CATZOC ZONE accuracy and can be applied manually to the UKC

Cell: S41

Comment: Sundeep Sharma (IN-SDC):
This column calculates UKC taking into account UKC accuracy



lot to Berth

Arrival Port:

QING DAO

[illegible]

			0					
			0					
			0					
			0					
			0					

FORM NO : MAROPS 005

Voyage : V1804

Weather Allow

(See notes on
Instruction page)

Min Available

Voyage :

Charted

Tide

Allow

[illegible]



PASSAGE PLANNING FORM

FORM NO : MAROPS 005

BERNHARD SCHULTE
SHIPMANAGEMENT

MV **CLIPPER BLISS**
DATE: 21-Jun-18

FROM: **Pilot Station**

TO: Berth **0**
TIDE DATUM: 1.5

Voyage V1804

[illegible]

Cell: P7
Comment: Sundeep Sharma (IN-SDC):
ECDIS vessels may write continuous

SQUAT CALCULATION CLIPPER BLISS
UKC PILOT TO BERTH

Formula for squat calculations
Briefly:

Squat in confined Waters:-
Squat in metres = $2 \times C_b \times (V^2 / 100)$
Squat in open Waters:-
Squat in metres = $C_b \times (V^2 / 100)$
V = Vessel's speed in knots
 C_b = Block coefficient

An approximate calculation "rule of thumb"
estimating on the high and safe side:

Squat (mtrs) = $V_K^2 / 100$ for open Seas
and Squat (mtrs) = $2 \times (V_K^2 / 100)$ in confined waters

where V_K is vessel's speed in knots (speed through water,
not GPS Speed)
Sea Water Calculation

1
Dock Water /Fresh Water Calculation 2 water densities and
FW
Dock Water/Fresh Water Allowance 0

Please enter 1 (SW) or 2 (DW/FW) 1

Heel Correction (in m) 0

Speed	SQ-O	SQ-C
2	0.03	0.07
2.5	0.05	0.10
3	0.07	0.15
3.5	0.10	0.20
4	0.13	0.27
4.5	0.17	0.34
5	0.21	0.41
5.5	0.25	0.50
6	0.30	0.60
6.5	0.35	0.70
7	0.41	0.81
7.5	0.47	0.93
8	0.53	1.06
8.5	0.60	1.20
9	0.67	1.34
9.5	0.75	1.49
10	0.83	1.66
10.5	0.91	1.83
11	1.00	2.00
11.5	1.10	2.19

CAUTION
ECDIS vessels must take into account the effect of "UKC accuracy" in col R
when calculating the vessels UKC particularly when the UKC is very low.
Local data/pilots and other sources of data must be consulted when the
UKC policy is not complied with, after applying the UKC Accuracy
correction.

[illegible]

Speed	SQ-O
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	
6.5	
7	
7.5	
8	
8.5	
9	
9.5	
10	
10.5	
11	
11.5	

Speed	SQ-C
2	
2.5	
3	
3.5	
4	
4.5	
5	
5.5	
6	
6.5	
7	
7.5	
8	
8.5	
9	
9.5	
10	
10.5	
11	
11.5	

	FOR ECDIS VESSELS ONLY		For ECDIS vessels	
SQUAT CORRECTION TYPE - OPEN / CONFINED			UKC (with CATZOC)	
	CATZOC ZONE	UKC ACCURACY - As per CATZOC Zone	CATZOC UKC	Is CATZOC UKC sufficient?
OPEN	A2	1.64	21.31	Yes
CONFINED	A2	1.44	11.21	Yes
CONFINED	A2		LEAVE IT	Yes
CONFINED	A2		LEAVE IT	Yes
CONFINED	A2		LEAVE IT	Yes
CONFINED	A2		LEAVE IT	Yes

Cell: N45
Comment: Sundeep Sharma (IN-SDC):
This column gives compliance with UKC policy without subtracting UKC accuracy from depth

Cell: Q45
Comment: Sundeep Sharma (IN-SDC):
Select the CATZOC zone

Cell: R45
Comment: Sundeep Sharma (IN-SDC):
This gives the value of CATZOC ZONE accuracy and can be applied manually to the UKC

Cell: S45
Comment: Sundeep Sharma (IN-SDC):
This column calculates UKC taking into account UKC accuracy